MDNR

Litton Systems
Registry
Greene Co.

JOHN ASHCROFT
Governor

G. TRACY MEHAN III
Director

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MEMORANDUM

Division of Energy
Division of Environmental Quality
Division of Geology and Land Survey
Division of Management Services
Divisionof Parks, Recreation, and Historic Preservation

Litton Systems
MoD007152903
1.3
SCS Engineers
7-22-91

DATE: July 22, 1991

TO: Litton Superfund Site File
Springfield, Greene County, Missouri

FROM: Kevin Kelly, Environmental Specialist
Superfund Section, Hazardous Waste Program
Division of Environmental Quality

Kevin Kelly

SUBJECT: Registry Evaluation - (Litton Site)

SITE BACKGROUND: On July 11, 1991, Litton representatives met with Department officials to present their findings of a recent environmental investigation conducted at their active Litton Advanced Circuitry Division (ACD) facility, located in Springfield, Missouri. The manufacturing facility/site is situated in the northwest part of Springfield on ~~East~~ West KK Kearney Street. SCS Engineers conducted the investigations for Litton and provided their findings in a report dated June 25, 1991. This report was used as documentation for this registry evaluation.

In connection with a prospective sale of the Litton ACD facility, which has operated on site since 1963, SCS constructed several shallow on-site monitoring wells for sampling. Groundwater samples were analyzed and found to contain significant levels of contamination. Soil boring analyses also indicate organic contamination is present. Soil contamination levels are below the Missouri Department of Health's safe soil levels. They are of concern, due to their capability to leach into the groundwater.

STATUS AND CONCLUSION: The SCS report (dated June 25, 1991) of the Litton facility documents the groundwater at the Litton facility property is contaminated with volatile organic compounds, their decomposition products, and copper and nickel. The investigation concludes Trichloroehtylene (TCE) to be the principal contaminant of concern at the site. TCE has been detected in the groundwater up to a level of 130,000 ppb.

Each of these contaminants was known to have been used by Litton in the manufacturing process of circuit boards. Although a specific source has not been pinpointed to date, several potential sources are being investigated on the Litton property. These include several former pits, lagoons, and ponds located on the property.

Due to the newly documented evidence of hazardous wastes and/or hazardous waste constituents present in the groundwater at the Litton site above recommended Missouri Department of Health's safe levels, the Hazardous Waste Program recommends the site be proposed for the Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites in Missouri. Please refer to the attached Registry Candidate Evaluation sheet and map for further regulatory justification. Maximum contaminant levels of hazardous wastes and or hazardous constituents detected in the groundwater at the site above Missouri Department of Health's safe levels are listed on the attached evaluation. Please also reference the June 25, 1991 Plan of Action report developed by SCS Engineers for further information on the site.

CONCURRENCES:

Jim Belcher, Chief
Planning and Pre-Remedial Unit

DATE: 7/23/91

Edwin D. Knight, Chief
Superfund Section

DATE: 7/23/91

KK:jp

Attachment

c: Bob Geller, Hazardous Waste Program (with enclosure)
Litton Registry File (with enclosure)

REGISTRY CANDIDATE EVALUATION

SITE: Litton **LOCATION: Kearney St., Springfield** **COUNTY: Greene**

PREPARED BY: Kevin Kelly **DATE: July 16, 1991**

1. HAZARDOUS WASTE PRESENT	EPA HWN	*** HWD	** TYPE OF SAMPLE	WELL NUMBER	SITE CONCENTRATION (ppb)	PREVIOUS DOH SAFE LEVELS (ppb)	DATE	< OR >*
Trichloroethylene (TCE)	F001/U228	B-1,B-3 E	GW	MW-7	130,000	5	7/89	>
1,1,1-Trichloroethane (TCA) *	F001	B-1 E	GW	MW-6	12,000	200	7/89	>
Methylene Chloride	F001/U080	B-1,B-3 E	GW	MW-7	73,000	1.9	7/89	>
1,1-Dichloroethane (DCA)	DP	B-1 E	GW	MW-7	910	-	-	-
1,2-Dichloroethane (DCA)	DP	B-1 E	GW	MW-7	480	-	-	-
Trans-1,2-Dichloroethene (DCE)	DP	B-1 E	GW	MW-3	70	-	-	-
1,1-Dichloroethene (DCE)	DP	B-1 E	GW	MW-7	29,300	-	-	-
1,1,2-Trichloroethane (TCA)	DP	B-1 E	GW	MW-6	43	-	-	-
Tetrachloroethene (PCE)	F001/U210	B-1,B-3 E	GW	MW-7	2,500	-	-	-

2. SOURCE OF ANALYTICAL DATA: DOCUMENT NAME: SCS Plan of Action FILE NAME: Litton Registry File DATE: 6/25/91

3. JUSTIFICATION FOR PURSUING REGISTRY ACTION (IF APPLICABLE): Analytical testing indicates numerous volitile organic compounds charcterized as hazardous wastes have been released at the site. The waste have been released to both the groundwater and soil. Due to the documented hazardous wastes released to the groundwater above MDOH safe levels the MDNR recommends the Litton property be proposed for the Registry. Please also reference attached map.

4. JUSTIFICATION FOR NOT PURSUING REGISTRY ACTION(IF APPLICABLE): N/A

---KEY---

*** HAZARDOUS WASTE DEFINITION (HWD) (CHARACTERISTIC=A, ignitable=1, corrosive=2, reactive=3, EP toxic=4)
(LISTED=B, non-specific=1, specific source=2, discarded commercial chemical product,etc.=3, 10 CSR 25-4.261 2(D)=4)
(MIXTURE RULE-40 CFR 261.3(a)(2)=C)
(DERIVED FROM RULE - 40 CFR 261.3(c)(2)=D)
(CONTAINED-IN-INTERPRETATION (OSW Memorandum dated 11/13/86)=E)

DP - Degradation product of hazardous wastes disposed
N/A=NOT APPROPRIATE (cannot be defined as a haz. waste without more evidence)
HWN- Hazardous waste number as appropriated by EPA 40 CFR 261

** TYPE OF SAMPLE: SOIL (S) SEDIMENT (SD) SURFACE WATER (SW) GROUNDWATER (GW) SLUDGE (SG) PURE WASTE (PW)
PAINT RESIDUE (PR) BACKGROUND (BG)

* < BELOW PREVIOUS DOH SAFE LEVELS
> ABOVE PREVIOUS DOH SAFE LEVELS

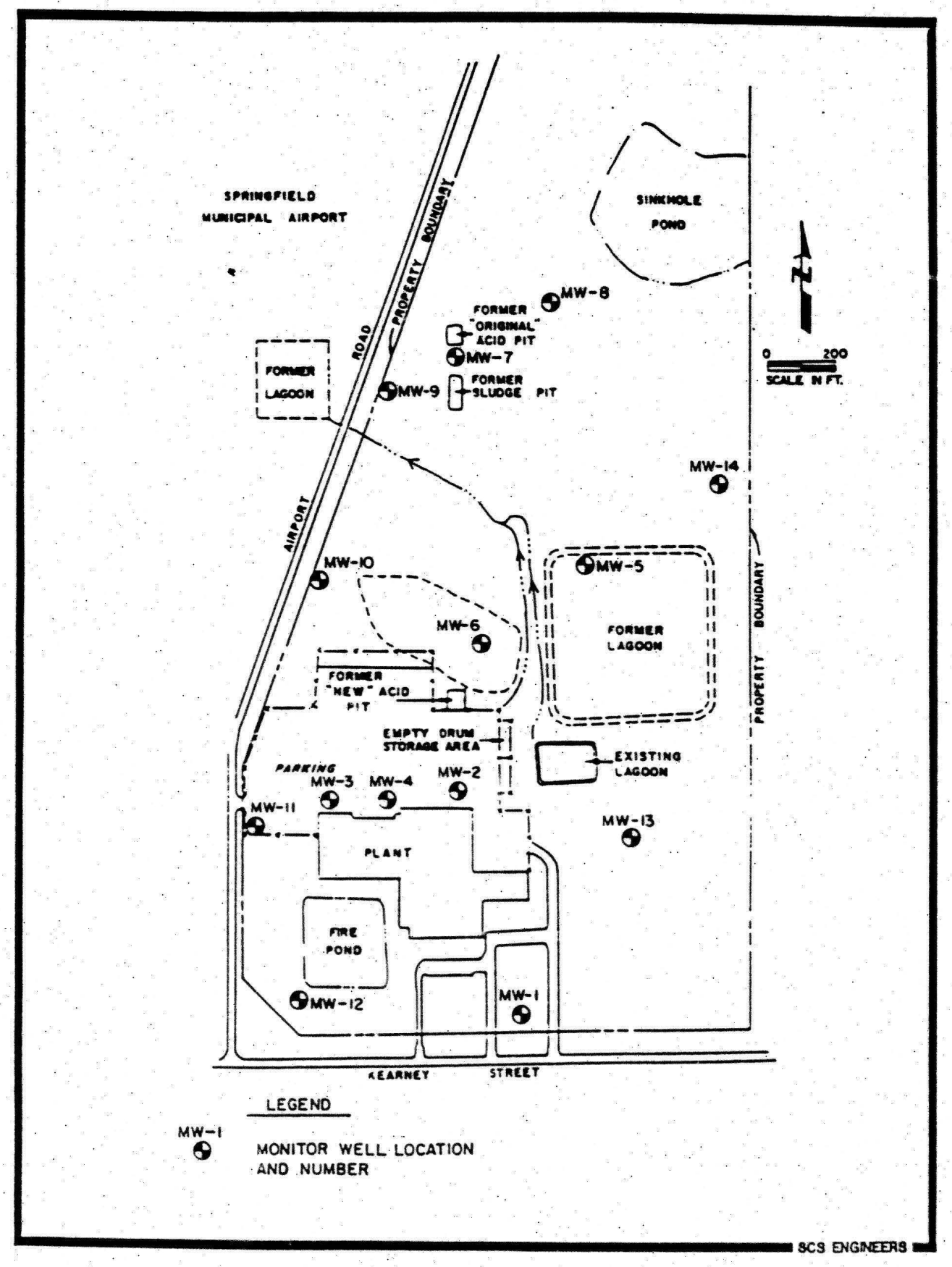

Figure A-5. Monitor Well Locations.